

Abstract Submitted  
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**Muon veto system and backgrounds of the DayaBay experiment**

BRANDON SEILHAN, Illinois Institute of Technology, DAYABAY COLLABORATION — The DayaBay reactor neutrino experiment aims to measure the last unknown neutrino mixing angle  $\theta_{13}$ . To reach our goal sensitivity of  $\sin^2 2\theta_{13} < 0.01$  we must identify and veto cosmic ray induced backgrounds at each of our three detector sites. The DayaBay experiment combines a water Cherenkov detector with RPCs to tag muons with an overall efficiency exceeding 99.5%. This talk will provide an overview of the DayaBay muon veto system and potential cosmic ray induced backgrounds.

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